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APPLIED MECHANICS
Reviews

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VOLUME 16
1963

APPLIED MECHANICS *Reviews*

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APPLIED MECHANICS REVIEWS

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WADEX

WORD & AUTHOR INDEX

Datamated by

E. A. Ripperger
UNIVERSITY OF TEXAS

Harold Wooster
*AIR FORCE
OFFICE OF SCIENTIFIC RESEARCH*

Stephen Juhasz
APPLIED MECHANICS REVIEWS

David Falconer
SOUTHWEST RESEARCH INSTITUTE

VOLUME 16

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Preface

In an age of transitional technology the phrases "hand made" and "machine made" are used both to praise and to disparage. "Printed circuits" and "hand soldered" receive equal space in the advertising of rival television manufacturers; shoes are "bench made" of the latest "ersatz" leather.

This ambivalence towards the machine is particularly evident in current attitudes towards the use of computers in indexing scientific documents. Some people believe that the computer can do anything short of providing its own instructions. Others feel that the computer can never produce a satisfactory index simply because it cannot really grasp the meaning of a title or a phrase.

Fortunately, a computer does not need to be an epistemological engine to be useful in index preparation. The title of a scientific article presumably has some connection with the content of the article. Machines do not have to "understand" these title words to rearrange them into a variety of charming patterns. Those concerned with the aesthetics of indexing as a Higher Art Form can stop right there. There are, however, two operational tests which should be applied to these patterns: they must be more convenient to use and/or provide better access to the original material than the other competing machine patterns; and, their cost-effectiveness must be no worse than that of an index to the same body of material prepared by old-fashioned human methods.

There is much talk these days of testing the efficiency of indexing systems. All too often, index A_1, prepared by method A_2, to corpus A is compared with index B_1, prepared by method B_2, to corpus B, when what is really needed is a comparison of indexes A_1 and B_1 applied with different methods to the same body of material. This book affords the opportunity for such comparison. Volume 16 of *Applied Mechanics Reviews* has been indexed by people. It has also been indexed by a machine program, which manipulates authors and titles of papers and prints them ready for reproduction. This is the product before you.

Indexes are consumer products, and consumer products should be tested by consumers. We know that this machine-made "WADEX" you hold is cheaper to prepare, and bulkier to print than the hand-made subject index to the same volume. We do not know how it stands up, in the jargon of the trade, to "real use by real people in real information retrieval situations." That is why we have reproduced and distributed this volume; that is why we have also enclosed questionnaires so that you can tell us your opinion of the WADEX, and give us any suggestions you may have for improvement of the "product."

HAROLD WOOSTER
Director of Information Sciences
Air Force Office of Scientific Research

WADEX

WADEX is an experimental information retrieval project of APPLIED MECHANICS REVIEWS. This is the second experimental WADEX to be produced. It provides an index to the 12 numbers of APPLIED MECHANICS REVIEWS, Vol. 16, 1963. Subscribers to the REVIEWS have previously received a conventional subject and authors' index for this volume.

The major features of the WADEX are that the titles are printed in full without abbreviations, the author's names are included with the titles, and the "designators" consist of author's names as well as words in the titles. These features are included in WADEX to make it more useful as an index than previously prepared computer-made indexes.

Details of the development and history of WADEX can be found in an article published in the March 1964 issue of MECHANICAL ENGINEERING, on pages 45–50. Reprints of that article can be obtained from the Editorial Office of APPLIED MECHANICS REVIEWS, 8500 Culebra Road, San Antonio, Texas.

Description of WADEX Preparation

Titles and authors of all the entries which appeared in Vol. 16 of APPLIED MECHANICS REVIEWS serve as the input for this WADEX. An IBM 1401 computer is used to select the designators and to arrange the titles in the desired format. As in some other machine-made indexes, the concept of "forbidden words" is applied. This concept refers to words in the title not used as designators for one reason or the other.

A list of forbidden words was prepared as follows: The computer was used to count the frequency of occurrence of each word that appears in the titles included in Vol. 16 of AMR, and then to list the words with the frequency count, alphabetically. From this alphabetic frequency count list, a temporary list of forbidden words was compiled to complement the basic list of forbidden words which had been assembled in the preparation of the first experimental WADEX from a similar frequency count. The basic list of forbidden words contained all the trivial words such as prepositions, conjunctions, articles (OF, AND, THE, IT, etc.), most of the nontechnical words and those technical words which appeared more than about 100 times (the word PRESSURE occurred 251 times in AMR Volume 15, covered by the first experimental WADEX). On the basis of the original and the temporary forbidden word list, those words which are not to be used as designators were selected. All of the remaining words are considered to be "designators." The selection of designators therefore involves no intellectual effort beyond the selection of forbidden words.

An improvement in the second experimental WADEX is the use of "tagged words." There are some word groups which have definite meaning even though one or more of the components are on the list of forbidden words. Words making up such a group are tagged and thus are made designators. For example, in the word group PRESSURE GRADIENT, the word PRESSURE is a forbidden word due to its high frequency, but in combination with GRADIENT it is meaningful and not useless from point of view of frequency. It therefore qualifies as a designator. The selection of tagged words was based on hyphenated words which appeared in the frequency count list for 1962, the AMR subject list and the subject index authority list.

Another improvement with respect to the first experimental WADEX is that the designator is listed once and only once in each column even if there are several entries with identical designators.

Each title appears in the WADEX on the average about six times, including the times it is listed under author's names.

How To Use WADEX

Each WADEX entry is composed of three parts: (1) Designators, (2) Reference numbers, and (3) Bibliographical entry. The following example indicates how a given technical publication is entered into the WADEX system. The three parts are shown first in an expanded and then in the composite form.

The DESIGNATOR is a word or an author's name. If it is the name of an author, then the author's last name is followed by his initial or initials. (Long designators are truncated to 25 characters.) Examples of designators:

```
HEAT-EXCHANGE

JONES,A.B.

PRESSURE GRADIENT

TURBULENT
```

The AMR REFERENCE NUMBER contains the year, month, and item number. Example:

```
                                                   67-06-5922
```

The BIBLIOGRAPHICAL ENTRY contains the author(s) name and the full title of the publication. Each title, it will be noted, is completely listed and appears without abbreviations, but to conserve space and not unnecessarily complicate the programming required for machine production of the WADEX, words are broken at the end of a line without regard to syllabification. Thus one may see the word LONGITUDINAL broken after LONGIT, with UDINAL appearing on the next line. Occasionally the line which begins with a broken word appears at the top of the next column or even on the next page. Bibliographical entry for the sample paper in WADEX is as follows:

```
DOE,J.R., JONES,A.B., SMITH,W.L., ON THE INFLUENCE OF LONGIT
UDINAL PRESSURE GRADIENT ON THE HEAT-EXCHANGE IN TURBULENT F
LOW IN ELLIPTICAL PIPES
```

Examples of COMPLETE ENTRIES as listed under the above designators of the sample publications are:

```
HEAT-EXCHANGE                                              67-06-5922
   DOE,J.R., JONES,A.B., SMITH,W.L., ON THE INFLUENCE OF LONGIT
   UDINAL PRESSURE GRADIENT ON THE HEAT-EXCHANGE IN TURBULENT F
   LOW IN ELLIPTICAL PIPES


JONES,A.B.                                                 67-06-5922
   DOE,J.R., JONES,A.B., SMITH,W.L., ON THE INFLUENCE OF LONGIT
   UDINAL PRESSURE GRADIENT ON THE HEAT-EXCHANGE IN TURBULENT F
   LOW IN ELLIPTICAL PIPES


PRESSURE GRADIENT                                          67-06-5922
   DOE,J.R., JONES,A.B., SMITH,W.L., ON THE INFLUENCE OF LONGIT
   UDINAL PRESSURE GRADIENT ON THE HEAT-EXCHANGE IN TURBULENT F
   LOW IN ELLIPTICAL PIPES


TURBULENT                                                  67-06-5922
   DOE,J.R., JONES,A.B., SMITH,W.L., ON THE INFLUENCE OF LONGIT
   UDINAL PRESSURE GRADIENT ON THE HEAT-EXCHANGE IN TURBULENT F
   LOW IN ELLIPTICAL PIPES
```

For book reviews, the word BOOK precedes the reference numbers and for the monthly feature articles the item number appears as a four-digit number starting with 99 followed by the month indicator; thus the March feature article would have the number 9903.

If a user is looking for a specific paper and can recall the author(s) name(s), he can locate the paper under that (those) name(s). Likewise, if he can recall any nontrivial word in the title, he can locate the paper under that word (unless it happens to be one of the words which were forbidden because they appear too many times). If, on the other hand, the user is seeking references pertaining to a particular subject, he will find pertinent papers listed under words which are descriptive of the subject.

In the case of multiple designators such as ELASTICITY, the first word in the bibliographical entry, namely the first author's name, can be looked upon as a "subheading." If more than one paper written by the same author have the same designator, then the review number is used for subsequencing.

If the designator is an author's name, then this name appears twice in the entry, once as a designator and once in the bibliographical entry. This repetition indicates to the reader whether the author did the work alone or with coauthor(s).

Since the WADEX has the author(s) name(s) and complete titles, it is quite usable for browsing purposes.

Authors' names have been spelled as in the primary journals, and no attempts have been made to standardize spellings. In cases of uncertainty concerning identity of an author, the reader can guess as well as the editors (for example, DOE, J. B. and DOE, B.). For Russian symbols, the National Federation of Science Abstracting and Indexing Service transliteration system is used. Different transliteration systems were occasionally used when already-translated Russian articles were taken from magazines. Efforts were made, however, to change the first letter of the author's surname if otherwise his entries would be entirely separated (such as in the case of Yakolev, Jakolev, or Iakolev).

Acknowledgments

The editors of APPLIED MECHANICS REVIEWS are indebted to the Air Force Office of Scientific Research for covering the editorial expenses of the second experimental WADEX, and to The University of Texas for the computational facilities and professional assistance so freely and cooperatively made available. The editors wish also to acknowledge the continued support from the National Science Foundation which makes possible many of the activities of APPLIED MECHANICS REVIEWS.

WADEX: List of Forbidden Words

A
ABOUT
ABOVE
ACCORDING
ACCOUNT
ACROSS
ACTING
ACTION
ADDITION
ADJACENT
ADVANCED
ADVANCES
AFFECTED
AFTER
AGAINST
AID
AIR
ALONG
ALTERNATING
ALTITUDE
AN
ANALYSES
ANALYSIS
ANALYZING
AND
ANY
APPLICABILITY
APPLICATION
APPLICATIONS
APPLIED
APPROACH
APPROXIMATE
APPROXIMATION
APPROXIMATIONS
ARBITRARY
ARE
ARISING
AROUND
ARTIFICAL
AS
ASSOCIATED
AT
AVERAGE
AXIS
BACK
BASIC
BASIS
BEHAVIOR
BEHAVIOUR
BEHIND
BEING
BETWEEN
BEYOND
BODIES
BODY
BOTTOM
BY
CALCULATED
CALCULATING
CALCULATION
CALCULATIONS
CAPABILITIES
CAPACITY
CAUSED
CENT
CENTER
CENTRAL
CENTRALLY
CERTAIN
CHANGE
CHANGES
CHANGING
CHARTS
CHOICE
CIRCULAR
CLASS
CLASSICAL
CLASSIFICATION
CLOSE
CLOSED
COEFFICIENT
COEFFICIENTS
COMBINATION
COMBINATIONS
COMBINED
COMPARATIVE
COMPARISON
COMPARISONS
COMPENSATION
COMPLETE
COMPONENT
COMPONENTS
COMPOSED
COMPOSITE
COMPUTATION
COMPUTING
CONCENTRATED
CONCENTRATION
CONCENTRATIONS
CONCEPT
CONCEPTS
CONCERNING
CONDITION
CONDITIONS
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CONFIGURATION
CONFIGURATIONS
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CONSIDERATIONS
CONSIDERING
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EFFICIENCY
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ENDS
ENGINEERING
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EVALUATING
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FROM
FULL
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GASES
GENERAL
GENERALIZATION
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